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## **EUROPEAN PATENT APPLICATION**

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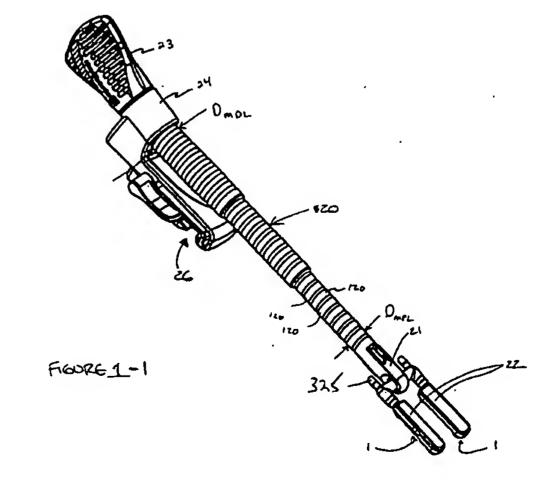
  AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU

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  AL LT LV MK RO SI
- (30) Priority: 15.09.1998 US 100443 P
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- (54) Apparatus for temporarily immobilizing a local area of tissue
- (57) The invention is apparatus for performing beating heart surgery, in which a single articulating arm supports multiple suction pods. Once the suction pods are applied to the heart surface, tightening a cable fixes the arm in place. Then, the suction pods may be spread apart from each other to tighten the surface of the cardiac tissue lying between the suction pods. In one embodiment, fixation of the arm as well as the spreading apart of the suction pods may occur concurrently or almost concurrently through the tensioning of a single cable. Additional embodiments of the method, system and its components are shown.





## **EUROPEAN SEARCH REPORT**

Application Number EP 99 30 7331

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	<b>T</b>			
	The present search report has i			Consistent
	THE HAGUE	Date of completion of the search	D =	Examiner
		26 April 2000		ton, S
	TEGORY OF CITED DOCUMENTS	E : earlier patent	riple underlying the in document, but publis	
Y : partic	cularly relevant if taken alone cularly relevant if combined with another		d in the application	
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O:non-	written disclosure mediate document		same patent family,	

**EPO FORM 150** 



**Application Number** 

EP 99 30 7331

CLAIMS INCURRING FEES
The present European patent application comprised at the time of filing more than ten claims.
Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.
LACK OF UNITY OF INVENTION
The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:
see sheet B
All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



## **EUROPEAN SEARCH REPORT**

Application Number EP 99 30 7331

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C	ATEGORY OF CITED DOCUMENTS			
Y : parti docu	icularly relevant if taken alone icularly relevant if combined with anoment of the same category	E : earlier patent doc after the filing dat	cument, but publish te n the application	
O : non	nological background -written disclosure mediate document	& ; member of the sa document		corresponding

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#### EP 0 993 806 A3



# LACK OF UNITY OF INVENTION SHEET B

Application Number EP 99 30 7331

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-11,18-21,45,46,78,79,82-88,110,114-118

Tissue immobilising system with movable paddles, in particular with a combination of malleable conforming and suction gripping

2. Claims: 1,22-25

Tissue immobilising system with movable paddles, with spreading means including a spreadable saddle

3. Claims: 1,29,31-38

Tissue immobilising system with movable paddles, with independent spreading of first and second paddles

4. Claims: 1,14-17,39-44,47-52

Tissue immobilising system with movable paddles, with hinged spreading means

5. Claims: 1,53-56,81

Tissue immobilising system with movable paddles, with simultaneous paddle spreading and arm locking

6. Claims: 1,12,20,30,57,58

Tissue immobilising system with movable paddles, with parallel paddle spreading

7. Claims: 1,13,59-62

Tissue immobilising system with movable paddles, with non-parallel paddle spreading

8. Claims: 1,63-77

Tissue immobilising system with movable paddles, with multiple suction ports on a single surface

9. Claims: 1,80

Tissue immobilising system with movable paddles, with



## **EUROPEAN SEARCH REPORT**

Application Number EP 99 30 7331

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X : parti Y : parti docu A : tech O : non-	ategory of cited documents  cularly relevant if taken alone cularly relevant if combined with another iment of the same category nological background  written disclosure mediate document	T: theory or principl E: earlier patent do after the filing da D: document cited i L: document cited f	cument, but publis te n the application or other reasons	hed on, or

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# LACK OF UNITY OF INVENTION SHEET B

Application Number EP 99 30 7331

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

special arrangement of suction source, suction port and paddle and port surfaces

10. Claims: 1,89-93,99-103

Tissue immobilising system with movable paddles, with special construction of flexible arm

11. Claims: 1,26-28,94-98,110-113,119-126

Tissue immobilising system with movable paddles, with spreading actuator remote from paddles

12. Claims: 1,104-109

Tissue immobilising system with movable paddles, with paddle with puncturing and dispensing capability

### ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 99 30 7331

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

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